

# QUANTUM 6

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## Appendix to Manual

SERIAL NUMBER:

PATENTS: U.S. 6544583B2, U.S. 6479094, U.S. 6433319, U.S. 6580061B2,  
U.S. 6663914; ADDITIONAL PATENTS PENDING

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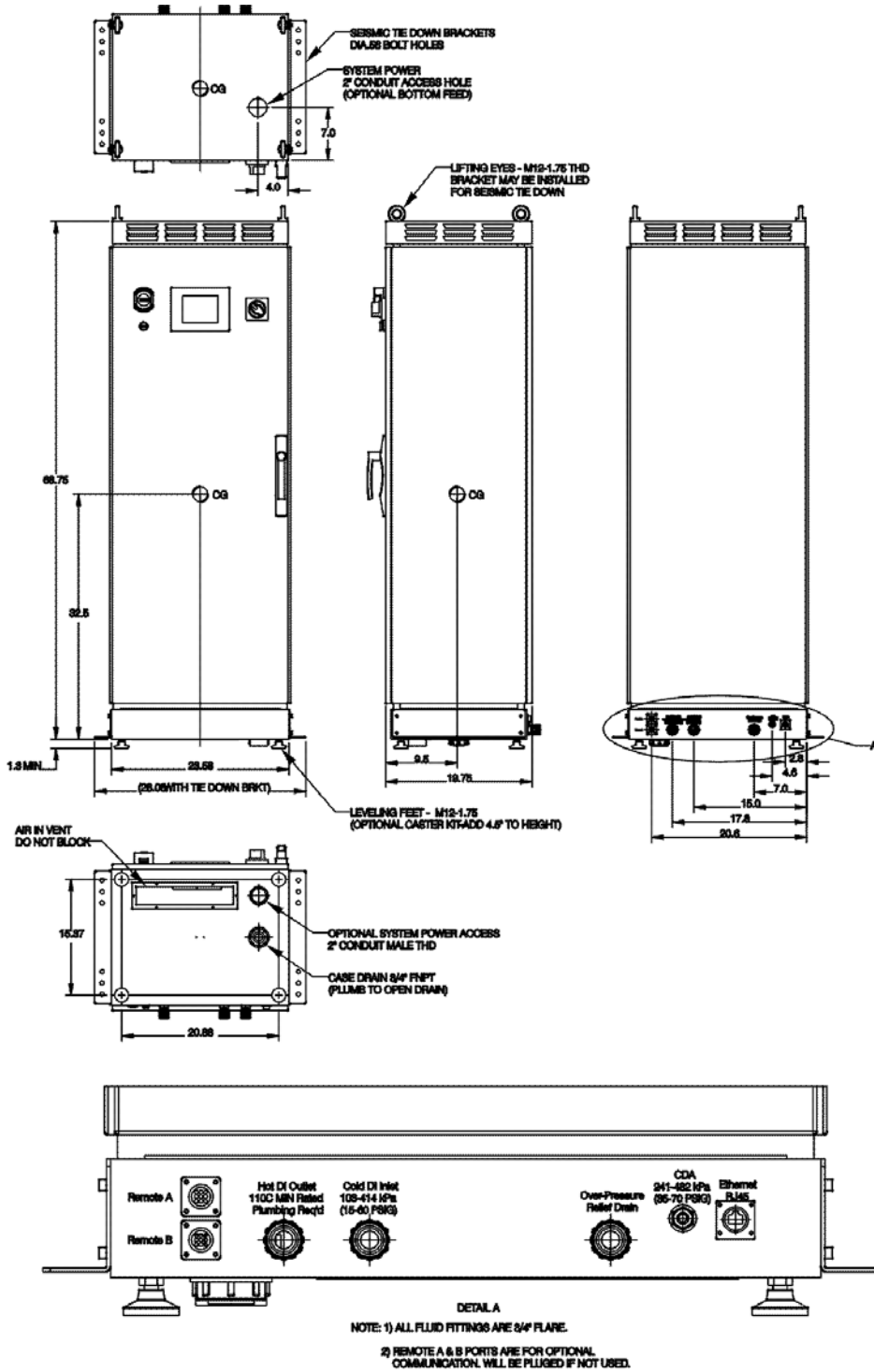
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# 1 APPENDIX: QUANTUM 6

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## 1.1 UTILITY REQUIREMENTS

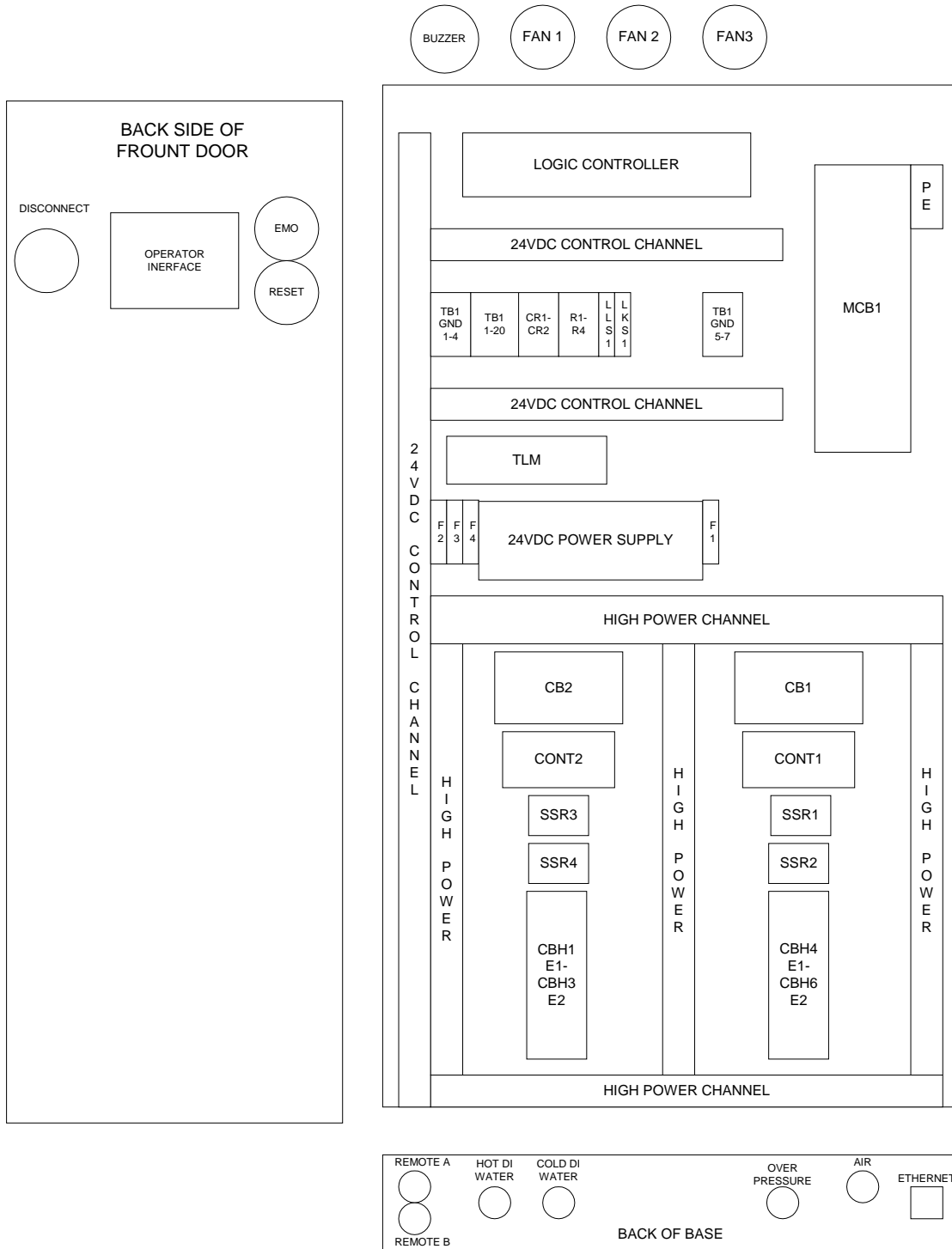
<b>Remote Signals:</b>	Standard Ethernet, RJ-45 Connector See schematic for wiring options.
<b>Cold DI Inlet:</b>	3/4" Flare PFA Tube 103-414 kPa (15-60 psig)
<b>Hot DI Outlet:</b>	3/4" Flare PFA Tube Discharge line must be restricted to create adequate backpressure >103 kPa (15 psig). A flow restriction may be required at the point of use to limit discharge rate.
<b>Overpressure Relief Drain:</b>	3/4" Flare PFA Tube 3/4" flare tube or equivalent <20m (60 ft.) length to open drain
<b>CDA or N2:</b>	1/4" Tube – Pressure source for diaphragm valve on DI Water Inlet 241-482 kPa (35-70 psig)
<b>Cabinet Drain:</b>	Open to drain (do not tie to overpressure line)
<b>System Weight:</b>	Dry Kg. (lbs): 114 Kg (250 lbs.)
<b>Min. Dimensions:</b>	178cm x 61cm x 51cm (70"H x 24"W x 20"D)



MTD046C  
REV A

Figure 1-1: Facility Installation Layout

**NOTE:** Accessibility to open or remove the front and back panels is required for maintenance of the heater.



MTD0464

**Figure 1-2: Electrical Component Layout**

## 1.2 SYSTEM REQUIREMENTS

### 72kW 480VAC Standard Configuration

**Model Number:** QTM072V480A00  
**Heating Module:** QA1V480P12  
**Typical Resistance:** Consult factory  
**System Power:** 480 volts, 3 phase, 50/60 Hz, 90 Amp Full Load  
125 Amp over-current protection provided at machine hook-up terminals  
Machine Interrupting Rating 35kA

### 60kW 480VAC Standard Configuration

**Model Number:** QTM060V480A00  
**Heating Module:** QA1V480P10  
**Typical Resistance:** Consult factory  
**System Power:** 480 volts, 3 phase, 50/60 Hz, 75 Amp Full Load  
100 Amp over-current protection provided at machine hook-up terminals  
Machine Interrupting Rating 35kA

### 60kW 415VAC Standard Configuration

**Model Number:** QTM060V415A00  
**Heating Module:** QA1V415P10  
**Typical Resistance:** Consult factory  
**System Power:** 415 volts, 3 phase, 50/60 Hz, 95 Amp Full Load  
125 Amp over-current protection provided at machine hook-up terminals  
Machine Interrupting Rating 35kA

### 60kW 380VAC Standard Configuration

**Model Number:** QTM060V380A00  
**Heating Module:** QA1V380P10  
**Typical Resistance:** Consult factory  
**System Power:** 380 volts, 3 phase, 50/60 Hz, 95 Amp Full Load  
125 Amp over-current protection provided at machine hook-up terminals  
Machine Interrupting Rating 35kA

### 1.3 SPARE PARTS

The most common replacement parts are listed below. For items not listed please contact Trebor.

PART NO.	DESCRIPTION	RECOMMENDED SPARE QTY.
98003412	Fuse, 3 Amp, CCMR	3
98003413	Fuse, 5 Amp, CCMR	1
98004141	SSR;125A;4-32VDC IN;48-660V OUT;TYCO	2
AE112	Gasket, SSR, Thermobond	2
Heating Module	See System Requirements for part number.	1
AF174	Over-pressure Burst Fitting	1

Please specify system Model Number and Serial Number when ordering spare parts. Consult factory for other parts not shown above.

### 1.4 WIRING SCHEMATIC

See system label for schematic number(s). See attached fold out sheets.